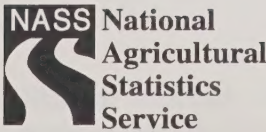


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1999

Fruit Wildlife Damage



USDA
Washington, D.C.

Released May 26, 1999, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Fruit Wildlife Damage" call Steve Gunn at (202) 720-4288, office hours 7:30 a.m. to 4:00 p.m. ET.

41.0 Million Dollars of Fruit Lost to Wildlife Damage

A survey of producers in 7 major fruit producing states in 1998 revealed that 41.0 million dollars or 1 percent of the U.S. production of apples, blueberries, and grapes was lost to wildlife damage. The survey of 8,850 producers was conducted in California, Michigan, New Jersey, New York, North Carolina, Pennsylvania, and Washington. Blueberries had the highest percentage of production lost to wildlife at 4 percent. Grapes and apples each had a 1 percent loss. The study indicated that producers spent 9.9 million dollars on wildlife damage prevention for these three crops. Grapes had the largest share with 5.4 million dollars spent on prevention. Apples and blueberries followed with 4.0 million dollars and 443 thousand dollars respectively. The Wildlife Damage Survey was funded by USDA, APHIS, Wildlife Services.

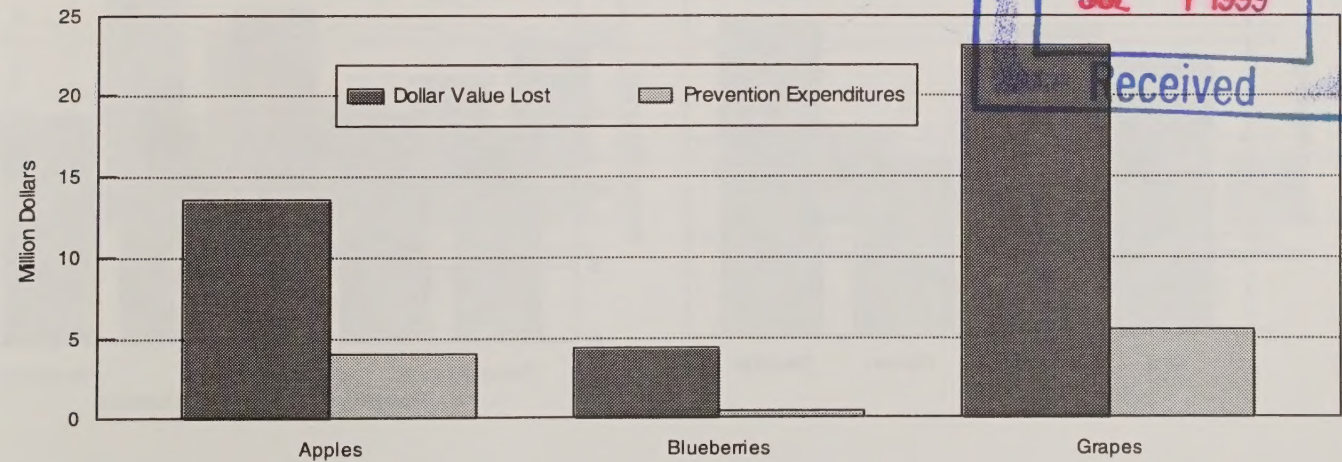
1998 U.S. Wildlife Damage to Selected Fruit Crops ¹

Crop	1998				
	Utilized Production	Price per Unit	Value of Utilized Production	Total Dollar Value Lost From Wildlife Damage	Total Expenditures on Wildlife Damage Prevention
	1,000 Pounds	Pound	1,000 Dollars	1,000 Dollars	1,000 Dollars
Apples	10,597,200	.116	1,226,380	13,504	4,013
Blueberries	154,203	.722	111,366	4,375	443
	Tons	Ton			
Grapes	5,592,005	446.00	2,492,306	23,135	5,431

¹ U.S. totals for dollar value lost and prevention expenditures were expanded based on data from the surveyed states.

1998 Wildlife Damage Study

U.S. Dollar Value Lost and Prevention Expenditures by Crop



13.5 Million Dollars of Apple Crop Lost to Wildlife Damage

In 1998, wildlife damage to apple production in the U.S. amounted to 13.5 million dollars or 1 percent of value of production. Approximately 4.0 million dollars was spent by producers to prevent wildlife damage to their apple crop. The most frequently reported wildlife causing damage to the apple crop were starlings (16%), deer (14%), mice and voles (10%), and robins (9%). The most frequently reported methods used to prevent wildlife damage were pyrotechnics (21%), flagging (15%), repellents (15%), frightening devices (14%), and fencing (14%).

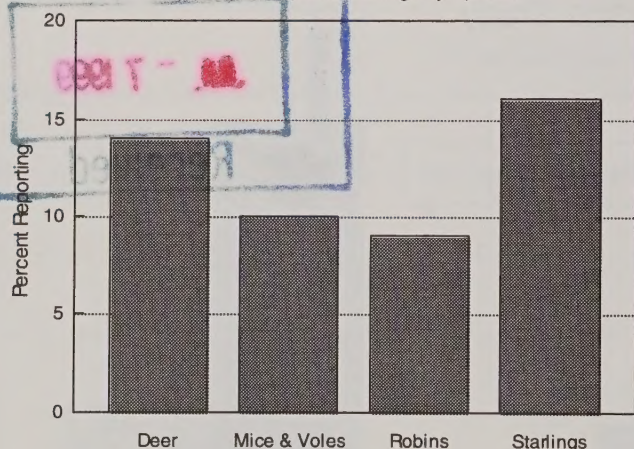
1998 Wildlife Damage to Apples for Major Producing States and U.S.

State	1998				
	Utilized Apple Production	Apple Price per Pound	Value of Utilized Apple Production	Total Dollar Value Lost From Wildlife Damage	Total Expenditures on Wildlife Damage Prevention
	1,000 Pounds	Dollars	1,000 Dollars	1,000 Dollars	1,000 Dollars
CA	800,000	.166	133,150	3,257	404
MI	930,000	.087	81,300	1,396	576
NY	1,010,000	.112	113,590	1,619	846
PA	404,000	.121	48,905	466	275
WA	5,900,000	.104	613,100	4,166	1,133
Oth Sts ¹	1,553,200	.152	236,335	2,600	780
U.S. ¹	10,597,200	.116	1,226,380	13,504	4,014

¹ U.S. and other states totals for dollar value lost and prevention expenditures were expanded based on data from the surveyed states.

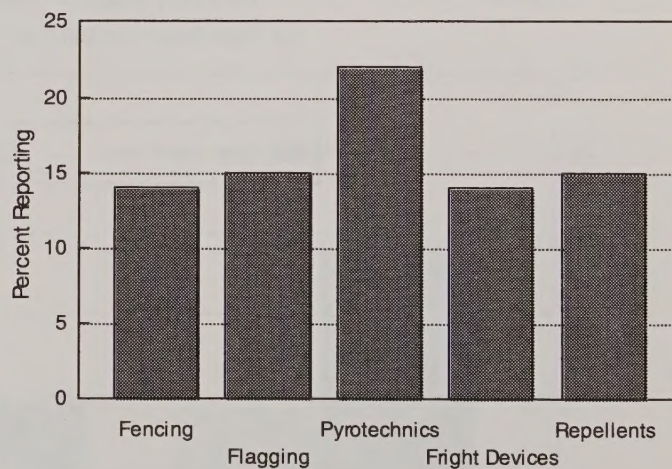
1998 Wildlife Damage Study

Frequency of Reported Damage by Species



1998 Wildlife Damage Study

Frequency of Reported Prevention Methods



4.4 Million Dollars of Blueberry Crop Lost to Wildlife Damage

In 1998, wildlife damage to blueberry production in the U.S. amounted to 4.4 million dollars or 4 percent of value of production. Approximately 443 thousand dollars was spent by producers to prevent wildlife damage to their blueberry crop. The most frequently reported wildlife causing damage to the blueberry crop were deer (18%), blackbirds (15%), starlings (14%), robins (11%), and crows and ravens (10%). The most frequently reported methods used to prevent wildlife damage were pyrotechnics (30%), frightening devices (23%), fencing (15%), repellents (10%), and flagging (9%).

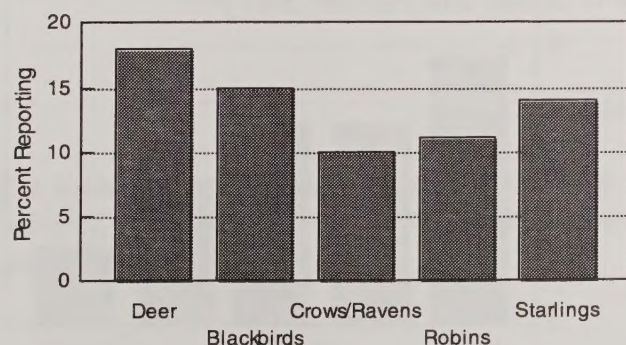
1998 Wildlife Damage to Blueberries for Major Producing States and U.S.

State	1998				
	Utilized Blueberry Production	Blueberry Price per Pound	Value of Utilized Blueberry Production	Total Dollar Value Lost From Wildlife Damage	Total Expenditures on Wildlife Damage Prevention
	1,000 Pounds	Dollars	1,000 Dollars	1,000 Dollars	1,000 Dollars
MI	55,000	.621	34,150	1,208	171
NJ	36,000	.788	28,360	1,404	73
NC	14,200	.913	12,962	116	19
WA	10,500	.625	6,565	494	63
Oth Sts ¹	38,503	.762	29,329	1,153	117
U.S. ¹	154,203	.722	111,366	4,375	443

¹ U.S. and other states totals for dollar value lost and prevention expenditures were expanded based on data from the surveyed states.

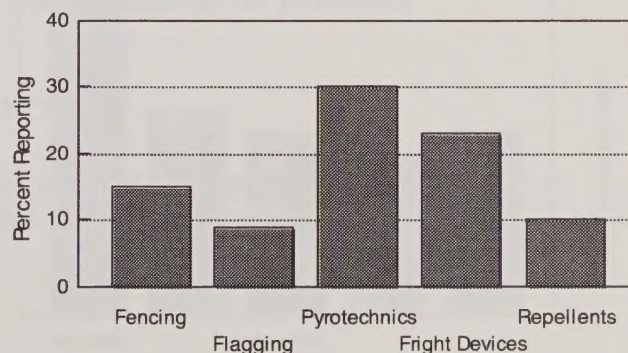
1998 Wildlife Damage Study

Frequency of Reported Damage by Species



1998 Wildlife Damage Study

Frequency of Reported Prevention Methods



23.1 Million Dollars of Grape Crop Lost to Wildlife Damage

In 1998, wildlife damage to grape production in the U.S. amounted to 23.1 million dollars or 1 percent of value of production. Approximately 5.4 million dollars was spent by producers to prevent wildlife damage to their grape crop. The most frequently reported wildlife causing damage to the grape crop were starlings (14%), ground squirrels (9%), blackbirds (8%), deer (8%), and coyotes (7%). The most frequently reported methods used to prevent wildlife damage were fencing (24%), flagging (18%), pyrotechnics (18%), frightening devices (13%), and repellents (7%).

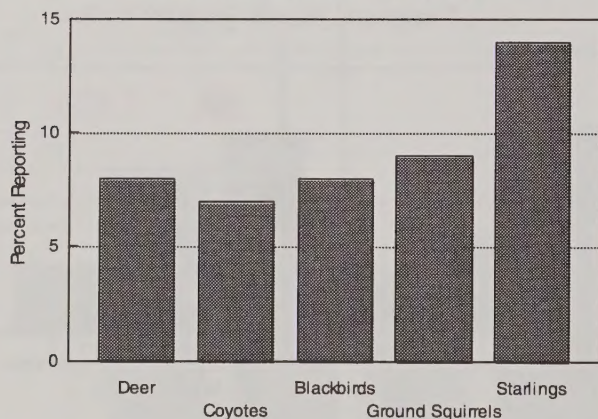
1998 Wildlife Damage to Grapes for Major Producing States and U.S.

State	1998				
	Utilized Grape Production	Grape Price per Ton	Value of Utilized Grape Production	Total Dollar Value Lost From Wildlife Damage	Total Expenditures on Wildlife Damage Prevention
	Tons	Dollars	1,000 Dollars	1,000 Dollars	1,000 Dollar
CA	5,065,000	448.00	2,269,910	19,725	4,767
MI	71,000	251.00	17,798	250	54
NY	125,000	305.00	38,146	1,143	254
PA	54,000	267.00	14,404	138	62
WA	222,000	482.00	107,004	1,460	195
Oth Sts ¹	55,005	819.00	45,044	419	99
U.S. ¹	5,592,005	446.00	2,492,306	23,135	5,431

¹ U.S. and other states totals for dollar value lost and prevention expenditures were expanded based on data from the surveyed states.

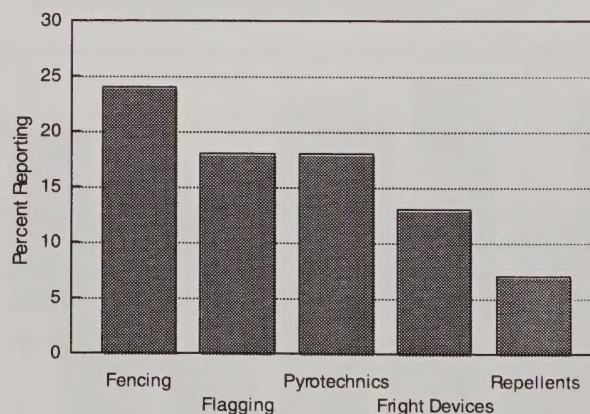
1998 Wildlife Damage Study

Frequency of Reported Damage by Species



1998 Wildlife Damage Study

Frequency of Reported Prevention Methods



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